Table 3.2 Cancer of the Brain and Other Nervous System (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2012 With up to Five Joinpoints, 1992-2012 With up to Three Joinpoints, Males by Race/Ethnicity

See		JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
Name		Years	APC	Years	APC	Years	APC			Years	APC	Years	APC	2003-12	2008-12
Name	SEER 9 Delay-Adi	usted Incidenc	ceª, 197	75-2012											
State 1975-12 0.0					-0.3*									-0.3*	-0.3*
SEER 13 Delay-Adjusted Incidence*, 1992-10-0.1*	White	1975-89	1.3*	1989-12	-0.1									-0.1	-0.1
Races 1992-12 -0.2* -0.2* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.1* -0.2* -0	Black	1975-12	0.0											0.0	0.0
Name	SEER 13 Delay-Ad	justed Incide	nce ^b , 19	92-2012											
Black 1992-12 0.2	All Races	1992-12	-0.2*											-0.2*	-0.2*
SEER 9 Observed Incidence*, 1975-89	White	1992-12	-0.1											-0.1	-0.1
All Races	Black	1992-12	0.2											0.2	0.2
Name															
Black	All Races	1975-89	1.2*	1989-12	-0.4*									-0.4*	-0.4*
All Races 1992-12 -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.3* -0.2*				1989-12	-0.2										
All Races	Black	1975-12	-0.1											-0.1	-0.1
White NHef	SEER 13 Observed	Incidence ^b , 1		_2											
White NHef 1992-12 -0.1															
Black 1992-12 0.0 0.0 0.0 0.0 Black NHef 1992-12 0.1 0.1 0.1 0.1 0.1 APTe 1992-12 -0.1 1.2 0.3 0.3 0.3 1992-12 0.3 1992-12 0.1 0.3 0.3 0.3 1992-12 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		1992-12	-0.2											-0.2	-0.2
Black NHef 1992-12 0.1 0.1 0.1 0.1 APIe 1992-12 -0.1 -0.1 -0.1 -0.1 AI/ANeg 1992-12 0.3 1992-12 0.3 1992-12 0.3 1992-12 0.1 -0															
API ^e 1992-12 -0.1 AI/AN ^{eg} 1992-12 0.3 Hispanic ^f 1992-12 0.3 Hispanic ^f 1992-12 -0.1 U.S. Cancer Mortality ^c , 1975-2012 All Races 1975-77 4.4 1977-82 -0.3 1982-91 1.3* 1991-07 -1.0* 2007-12 0.7 White 1975-70 4.7 1977-82 -0.3 1982-91 1.4* 1991-07 -0.9* 2007-12 0.8 Black 1975-90 0.6 1990-12 -0.7* U.S. Cancer Mortality ^c , 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black 1992-12 -0.6* Black 1992-12 -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8*															
AI/ANeg 1992-12 0.3															
Hispanic 1992-12 -0.1 U.S. Cancer Mortality 1975-2012 All Races 1975-77 4.4 1977-82 -0.4 1982-91 1.3* 1991-07 -1.0* 2007-12 0.7 White 1975-77 4.7 1977-82 -0.3 1982-91 1.4* 1991-07 -0.9* 2007-12 0.8 Black 1975-90 0.6 1990-12 -0.7* U.S. Cancer Mortality 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NHef 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black 1992-12 -0.6* Black NHef 1992-12 -0.6* API 9 1992-12 0.5 AI/ANeg 1992-12 1.8*															
U.S. Cancer Mortality ^c , 1975-2012 All Races 1975-77 4.4 1977-82 -0.4 1982-91 1.3* 1991-07 -1.0* 2007-12 0.7 White 1975-77 4.7 1977-82 -0.3 1982-91 1.4* 1991-07 -0.9* 2007-12 0.8 Black 1975-90 0.6 1990-12 -0.7* U.S. Cancer Mortality ^c , 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NH ^{ef} 1992-12 -0.6* API ^c 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8* Heave 1992-12 0.7* Heave 1992-12 0.8* Heav	·														
All Races 1975-77 4.4 1977-82 -0.4 1982-91 1.3* 1991-07 -1.0* 2007-12 0.7 0.0 0.7 White 1975-77 4.7 1977-82 -0.3 1982-91 1.4* 1991-07 -0.9* 2007-12 0.8 0.1 0.8 Black 1975-90 0.6 1990-12 -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.7* -0.8* 2007-12 0.8 0.1 0.8	Hispanic ^r	1992-12	-0.1											-0.1	-0.1
White 1975-77 4.7 1977-82 -0.3 1982-91 1.4* 1991-07 -0.9* 2007-12 0.8 Black 1975-90 0.6 1990-12 -0.7* U.S. Cancer Mortality ^c , 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NH ^{ef} 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8* 1.4* 1991-07 -0.9* 2007-12 0.8* 2007-12 0.8 1.4* 1991-07 -0.9* 2007-12 0.8 2007-12 0.8* 2007-12 0.7 0.0 0.7															
Black 1975-90 0.6 1990-12 -0.7* U.S. Cancer Mortality ^c , 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NH ^{ef} 1992-12 -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8*															
U.S. Cancer Mortality ^c , 1992-2012 All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NH ^{ef} 1992-12 -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8*						1982-91	1.4*	1991-07	-0.9*	2007-12	0.8				
All Races 1992-07 -1.0* 2007-12 0.7 White 1992-07 -0.8* 2007-12 0.8* White NHef 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NHef 1992-12 -0.6* APIe 1992-12 0.5 AI/ANeg 1992-12 1.8*	Black	1975-90	0.6	1990-12	-0.7*									-0.7*	-0.7*
White 1992-07 -0.8* 2007-12 0.8* White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* Black NH ^{ef} 1992-12 -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8*															
White NH ^{ef} 1992-07 -0.7* 2007-12 1.0* Black 1992-12 -0.6* -0.6* Black NH ^{ef} 1992-12 -0.6* -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8*															
Black 1992-12 -0.6* -0.6* -0.6* Black NH ^{ef} 1992-12 -0.6* -0.6* -0.6* API ^e 1992-12 0.5 0.5 AI/AN ^{eg} 1992-12 1.8* 1.8*															
Black NH ^{ef} 1992-12 -0.6* -0.6* API ^e 1992-12 0.5 AI/AN ^{eg} 1992-12 1.8* -0.6*				2007-12	1.0*										
API ^e 1992-12 0.5 0.5 AI/AN ^{eg} 1992-12 1.8* 1.8*															
AI/AN ^{eg} 1992-12 1.8* 1.8*															
Hispanic ^f 1992-12 0.0 0.0	'	1992-12	1.8*											1.8*	
	Hispanic ^f	1992-12	0.0											0.0	0.0

Joinpoint Regression Program Version 4.2.0, April 2015, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

e API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The Hispanic and Non-Hispanic mortality trends exclude deaths from New Hampshire and Oklahoma.

Data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

^{*} The APC/AAPC is significantly different from zero (p<.05).</p>

⁻ Joinpoint regression line analysis could not be performed on data series.